

ON SOME LAND AND FRESH-WATER MOLLUSCA FROM SUMATRA.
PART I.

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PLATE II.

THE shells recorded in this communication have been collected during the Spring and Summer months of 1905 in various localities in mid-Sumatra, and reached me during July and August. A further series will arrive later and be dealt with in a future paper.

The sequence followed in this paper is that adopted by Dr. E. von Martens in Max Weber's "Zoologische Ergebnisse einer Reise in Niederländisch Ost-Indien," Band ii (1892), pp. 209-264, and Band iv, Heft 1 (1897), pp. 1-331.

CYCLOPHORUS (CROSSOPOMA) PLANORBULUM, Lamarck.

Hab.—Mount Sago.

CYCLOPHORUS (AMPLUS) EXIMIUS, Mousson.

Hab.—Mount Sago.
Dark variety.

Var. ROUYERI, n.var. Pl. II, Figs. 1, 2.

Testa subdepressa turbinata, permodice umbilicata, subsolida, superne spiraliter multum subelevate striata, ad peripheriam subcarinata, infra striis etiam multis spiralibus paullum elevatis, sculpta; periostracum ornamento et subfusco et castaneo stictum, infra fuscatum; anfractus 5, tres priores convexi, apicem satis prominentem formantes, duo sequentes subconvexi; sutura leviter impressa; apertura cæruleo-albida, rotundata, oblique descendens; peristoma angustum, subcrassum, expansum, vix reflexum, cæruleo-albidum, margine columellari late expanso et reflexo, umbilicum plus minus obtegente; operculum corneum, multi-spirale. Diam. max. 50, min. 41 mm.; alt. 40.5 mm.

Hab.—Mount Singalong.

These specimens are somewhat like, but smaller than, typical *C. eximius*, the shell being more closely whorled, the columella being regularly widened so as almost to cover the umbilicus; the body-whorl is also more rotund and the spiral ridges are more rounded, and there are more of them on the under-surface of the body-whorl. In one specimen of *C. eximius* from Mount Sago there is a widening of the columella, but it is not symmetrical as in the form under discussion, and is more in the nature of an abnormality than a regular widening. The new shell differs in many essentials from *C. validus*, Sow., and its varieties from the Philippines, and *C. appendiculatus*, Pfr. The above description is put forward as provisional. M. Henri Rouyer has

advised Mr. H. C. Fulton that this shell was being described as *C. eximius*, var. *Ouwensi*, Koll., in Batavia, but the record has not yet come to hand, and as M. Rouyer sent it to me as a species to be identified in July, 1905, I describe it with the above reservation.

CYCLOPHORUS (SALPINGOPHORUS) PLICIFERUS, Martens.

Hab.—Mount Singalong.

A very dark specimen, the body-whorl being very much malleated on the upper surface.

MEGALOSTOMA (COPTOCHELLUS) SUMATRANUM, Dohrn.

Hab.—Mount Bongson.

PUPINA (EUPUPINA) SUPERBA, Pfeiffer.

Hab.—Mount Bongson.

Stunted specimens.

XESTA CORNICEN, n.sp. Pl. II, Figs. 3, 4.

Testa anguste perforata, tenuis, subpellucida, flavide cornea, lineis incrementi tenuibus striisque spiralibus obsoletis sculpta; spira brevis, ad apicem paulum elata; anfractus $4\frac{1}{2}$, tres superiores convexiusculi, ultimus ad peripheriam rotunde angulatus, supra angulum et ad suturam canaliculatus; apertura angulatim late lunata; peristoma tenue, margine columellari supra umbilicum breviter reflexo. Diam. max. 23, min. 17.5 mm.; alt. 12 mm.

Hab.—Mount Talang.

This specimen is not unlike *X. glutinosa*, Metcalfe, but it trumpets much more, and is a more fragile shell.

TROCHOMORPHA DOHERTYI, Aldrich.

Hab.—Mount Sago.

Not in Von Martens' lists.

EULOTA (PLECTOTROPIS) SUMATRANA, Martens.

Hab.—Mount Bongson.

STENOGYRA HASTATA, Boettg.

Hab.—Mount Merapi.

Not in Von Martens' lists. It is a Javanese species also.

SUBULINA OCTONA (Chemnitz).

Hab.—Pajakombo. From banana plantations.

These specimens, like some received from Java, seem to contain ova.

CLAUSILIA (PHÆDUSA) SUMATRANA, Martens, var. VICARIA, Sykes.

Hab.—Mount Sago.

CLAUSILIA CORTICINA, Von dem Busch.

Hab.—Pajakombo.

More rugose than type.

LIMNÆA BREVISPIRA, Martens.

Hab.—Mount Bongson.

The sender describes these specimens as “de la petite marre.” But the latter word is not in Contanseau’s French Dictionary: ‘marais’ would be understandable; ‘marre’ is perhaps a local French variant.

LIMNÆA EXCAVATA, MOUSSON.

Hab.—Mount Sago.

LIMNÆA BONGSONENSIS, n.sp. Pl. II, Figs. 5, 6.

Testa producte ovata, tenuis, fusco-cornea; anfractus 4, convexi, lineis incrementi striati; anfractus ultimus elongatus, tumidus, ad suturam non impressus, notis transversis pellucidis pallide corneis pictus; spira brevis, erosa; apertura subpyriformis; columella tortuosa, fusco-castanea, intus nitida, fusco-cornea; labium super regionem columellarem late appressum; peristoma simplex. Long. 21, lat. 12 mm.

Hab.—Mount Bongson.

ISIDORA SUMATRANA (Martens).

Hab.—River at Souliki.

Exterior much stained by impure water of habitat. Dr. E. von Martens¹ described this species as having seven whorls, but three specimens (figs. 27–29) are figured with six only. These latter agree with mine, which have a similar number.

PLANORBIS PROCLIVIS, Martens.

Hab.—Mount Singalong.

AMPULLARIA SUMATRENSIS, Phil.

Hab.—From the rice-fields, Pajakombo.

VIVIPARA SUMATRENSIS, Dkr.

Hab.—Pajakombo, and river at Piladang.
Dark variety.

MELANIA INDRAGIRICA, Martens.

Hab.—River Indragiri, and a variety from the River Kwantan, an affluent of the Indragiri.

MELANIA (PLOTIA) SCABRA, Müller.

Hab.—Brook at Piladang.

MELANIA (PLOTIA) DATURA, Dohrn.

Hab.—Brook at Pajakombo.

MELANIA DISTINGUENDA, Brot.

Hab.—River of Pajakombo.

¹ Zool. Ergeb., Band iv, Heft 1, p. 8, pl. i, figs. 26–29.

MELANIA PAGODA, Lea.

Var. COSTULATA, Schepman.

Hab.—River of Pajakombo.

MELANIA SAVINIEREI, var., Morlet.

Melania Savinierei (Brot MS.), Morlet : J. de Conch., 1884, p. 330, pl. vii, fig. 2.*Hab.*—River of Pajakombo.

MELANIA CURVICOSTA, Martens.

Hab.—River of Mount Merapi.

Var. PRESTONIANA, n.var. Pl. II, Fig. 8.

Testa typo similis sed minor, lævigata; costæ longitudinales, obsoletæ, striæ et lineæ incrementi plus minus deletæ; color fuscus; anfr. ? , superiores abrupti; reliqui 3-4 convexiusculi; anfractus distalis clausus. Long. ad 25.5, diam. max. 11 mm.

Hab.—Mount Merapi.

Smaller than type, ribs obsolete, spire truncated, and distal whorl sealed.

MELANIA JAVANICA, Von dem Busch, var.

Hab.—River Kwantan, affluent of the Indragiri.

MELANIA LIRATA, Benson.

Hab.—River of Mount Bogson.

MELANIA SUBPLICATA, Schepman.

Hab.—River at Souliki.

MELANIA UNIFASCIATA, MOUSSON.

Hab.—River at Souliki.

MELANIA SYKESI, n.sp. Pl. II, Fig. 7.

Testa pyrgiformis, epidermide fusco-olivacea induta, longitudinaliter costata, costis nodosis ad apicem; sutura impressa; anfractus 9 convexi, ultimus liris quatuor spiralibus basi cinctus; peristoma tenue, aliquantum incrassatum ad columellam non-productam; apertura elongate elliptico-rhomboidalis, simplex, intus pallide-olivacea, pellucida. Long. 21, diam. max. 6 mm.

Hab.—Piladong and the Souliki Range.

UNIO SUMATRENSIS, Lea.

Hab.—Rivers Indragiri and Kwantan.

UNIO PAJAKOMBOENSIS, n.sp. Pl. II, Figs. 9-11.

Testa solida, ovata, tumida, inæquilateralis, antice et postice leviter hians, nitida, flavido-fusco-viridis; valvæ postice decliviter subrotundatæ, concentricè substriatæ; umbones propinqui, erosi; dens anterior cardinis valvæ dextræ longus, erectus, declivis, fere lævis,

interdum eum dente parvo auxiliari parallelo juxta marginem externam sito; dens posterior elongatus, duobus paribus dentes duo posteriores valvæ sinistræ æque elongati; dens anticus interiore pæne obsoletus; cicatrix antica alta, postica minime profunda; ligamentum prominens. Long. 77, alt. 51·5, diam. 37 mm.

Hab.—River at Pajakombo.

CORBICULA MOUSSONI, Desh.

Hab.—River Kwantan, affluent of the Indragiri, and the Souliki Range.

One *Corbicula* from the River Kwantan is not included in this paper, as its affinities are not at present quite clear.

My best thanks are due to Mr. E. A. Smith for access to the specimens and literature in the British Museum, and to Mr. E. R. Sykes for the loan of a specimen of *Cyclophorus pliciferus* and for useful information.

EXPLANATION OF PLATE II.

- FIGS. 1, 2. *Cyclophorus (Amplus) eximius*, var. *Rouyeri*, n.var.
 „ 3, 4. *Xesta cornicen*, n.sp.
 „ 5, 6. *Limnæa Bongsonensis*, n.sp.
 FIG. 7. *Melania Sykesi*, n.sp.
 „ 8. *Melania curvicosta*, var. *Prestoniana*, n.var.
 „ 9. *Unio Pajakomboensis*, n.sp.
 „ 10. Hinge of right valve.
 „ 11. Hinge of left valve.